

USACE New Madrid Seismic Zone Earthquake Response OPLAN

USACE DCO/G3

14 June 2016



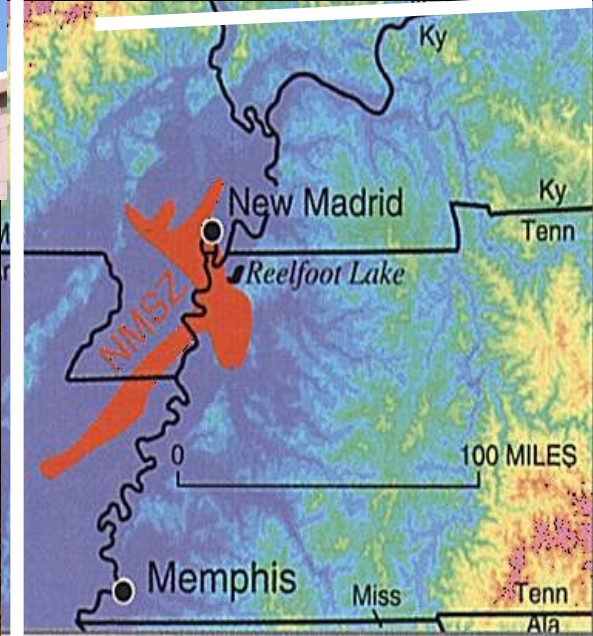
US Army Corps of
Engineers

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St. Jude Children's
Research Hospital
ALSC • Danny Thomas, Founder



Agenda

- Area of Concern
- Key Facts and Assumptions
- Mission
- Concept of Operations
 - Phase 1 - Steady State
 - Phase 2a - Immediate Response
 - Phase 2b - Deployment
 - Phase 2c - Employment & Sustained Response
- Command & Control



Area of Concern

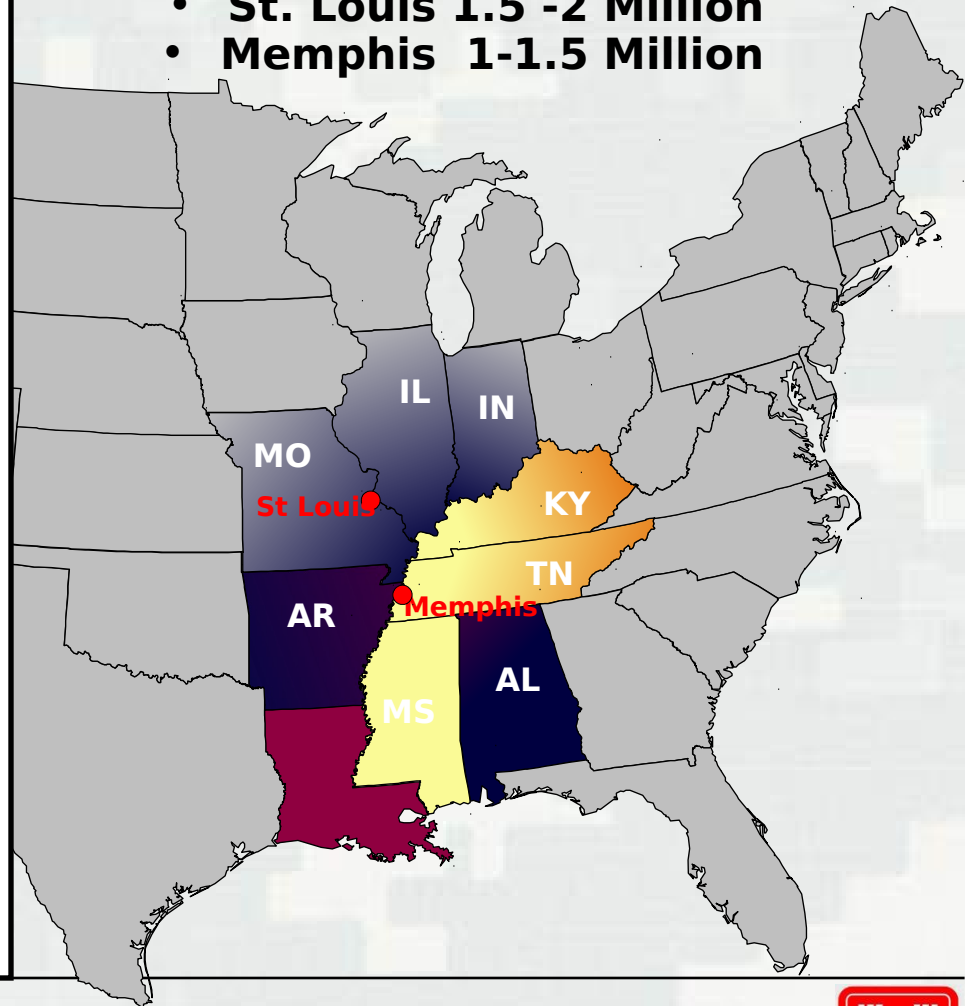
Impacts

- No-Notice event, w/multiple aftershocks
- Mass care/shelter/resources may be inadequate
- Housing/evacuation/population relocation challenges
- Long-term impacts to incident area and the Nation requiring years to recover
- National Assessment (7.7 magnitude event, source MAEC Report)

— Households without	
• Water	1,089,814
• Power	2,481,271
— Tons of debris	
50,056,000	
— Injuries	82,500

Approximate area 126,575 sq mi
12 Million people / 160 - 200 Cities

- St. Louis 1.5 -2 Million
- Memphis 1-1.5 Million



— Fatalities	3,500
— Buildings damaged	715,000
— Bridges damaged	3,600

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Key Facts

- 7.7 magnitude NMSZ EQ impacts the Eastern Interconnection of the US Power Grid
- Communications systems impacted directly by EQ or by loss of power region-wide
- Transportation systems damages impact flow of responders and resources
- Level of damage by state: Tennessee, Arkansas, Missouri, Kentucky, Mississippi, Illinois, Indiana, and Alabama in that order
- Memphis District, USACE Finance Center (UFC) and Logistics Activity (ULA) reside vic ground zero



Assumptions

- USACE operates in an environment without normal communications in the impacted area between HQ USACE and subordinates due to loss of power in the Eastern US
- Movement into the impacted AO requires detailed coordination and integration with FEMA Movement Control Group/Cell
- Memphis District will be unable to respond and require reconstitution, UFC and ULA will have to COOP to alt sites impacting RM and log capabilities in the short term



Mission

In response to a catastrophic earthquake in the NMSZ, USACE assesses and repairs flood protection and civil works infrastructure, supports efforts to restore navigation ICW the USCG, executes missions in support of (ISO) FEMA under the NRF, supports restoration of DOD installations, and provides support to others to repair critical infrastructure in order to save lives, protect property and critical infrastructure, and set conditions for the long-term re-establishment of public utilities and services in the impacted area of the Central United States.



Phase 1- Steady State

USACE Authorities

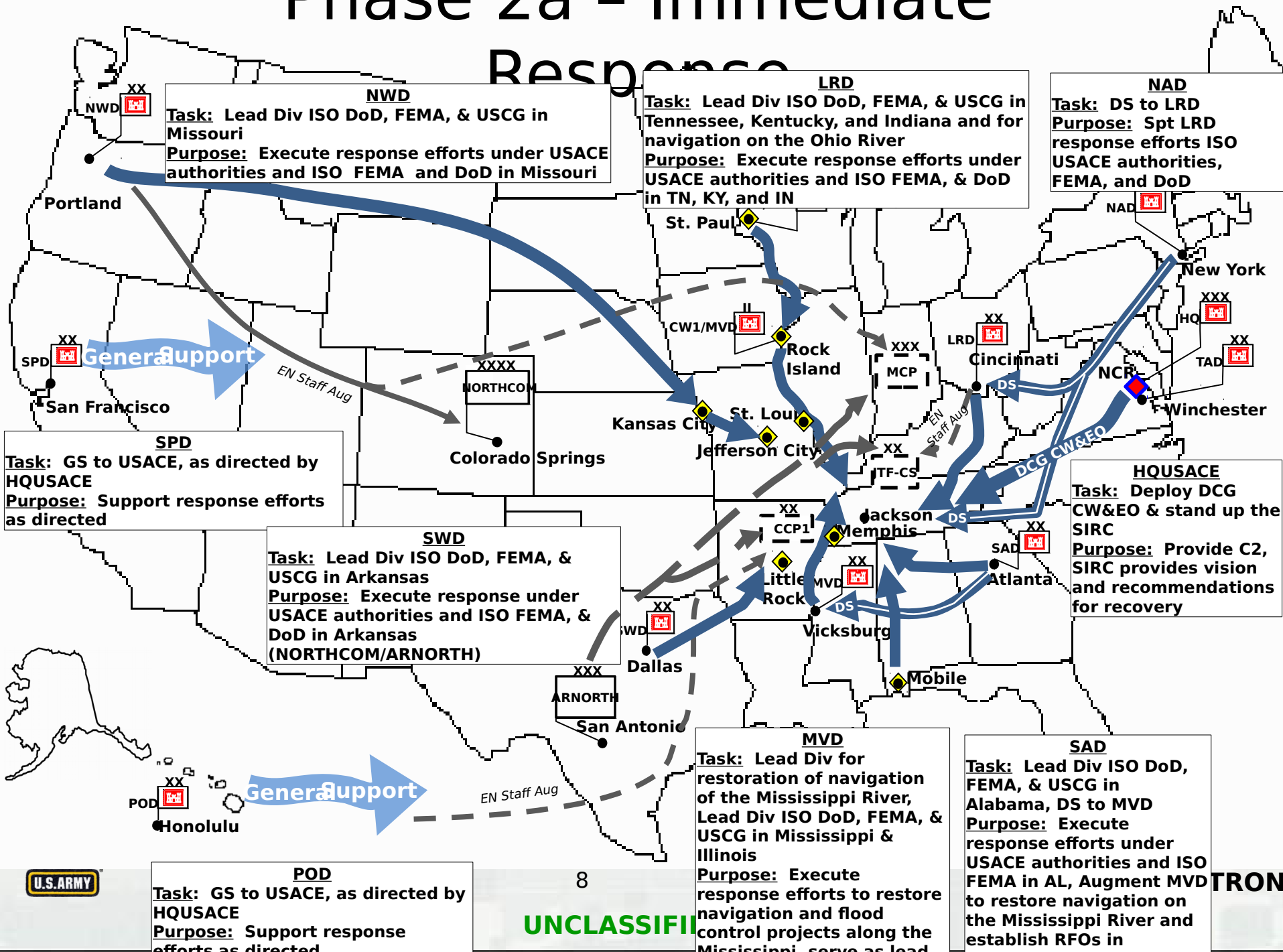
- Restore flood protection/civil works
- Mississippi River: MVD w/NAD/SAD DS
- Ohio River: LRD w/NAD DS

NRF/ESF #3 Support

- TN is Main Effort
- Priority States: TN, AR, MO



Phase 2a - Immediate Response



Phase 2a - Restoration of Navigation



Divisions

— Provide LNOs to support USCG RRUs / facilitate coordination between RRUs and MTSRUs

- LRD: IN, KY, and TN
- MVD: IL and MS
- NWD: MO
- SAD: AL
- SWD: AR

— Lead Divisions:

- MVD: USCG coordination and USACE efforts along the Upper and Lower Mississippi River
- LRD: USACE efforts along the Ohio River

USCG Commands (Lower MS, Upper MS, OH River, and USCG Districts)
USACE Districts
BSCC (Bureau of Safety and Compliance)
Joint Agency

located at the same point
Filed Office

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Phase 2b, first 24 to 72 hours: Deployment

Phase 2c, 72 hours to 30 days: Employment & Sustained

Re

State	Supported	Debris	Power	Infrastructure	Roofing ¹	Commodities ⁴	249th PP	Housing	DTOS ESF3 MSN	DTOS MSC C2
TN	LRD	NAB	LRP	LRB-2	SWL	NAO	Type II NRF Primary	NAN	ECCV01	ECCV07 MCV01
AR	SWD	SWF	SWT	POA		SWG	Type II NRF Primary	SPL	ECCV09	ECCV13
MO	NWD	MVN	NWW	NWS		SAW	Type II NRF Secondary	SAJ	ECCV12	ECCV 14
KY	LRD	LRL	SPA	LRB-1		MVR	Type II NRF Secondary	LRH	ECCV02	ECCV08
IL	MVD	MVK	POH-1	SPK-1				MVP-1	ECCV06	ECCV15
MS	MVD	SAM-1	SAS-1	SAC-1	NW0			HNC-1	ECCV04	ECCV10 ECCV11 ECCV 15 MCV03 CTOC02
IN	LRD	SPK	POH-2	SPK-2				MVP-2	ECCV05	
AL	SAD	SAM-2	SAS-2	SAC-2				HNC-2	MCV02	
n/a	HQUSACE	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	ECCV 03

1 - Roofing teams will augment and support Infrastructure PRT and receive OJT

2 - Teams 1 and 2 represent PRTs with two state responsibilities: first priority is team 1, with lower priority team 2

3 - Assumes MVM Power PRT, MVS Roofing PRT, and LRN Roofing PRT are victim districts and PRTs not available

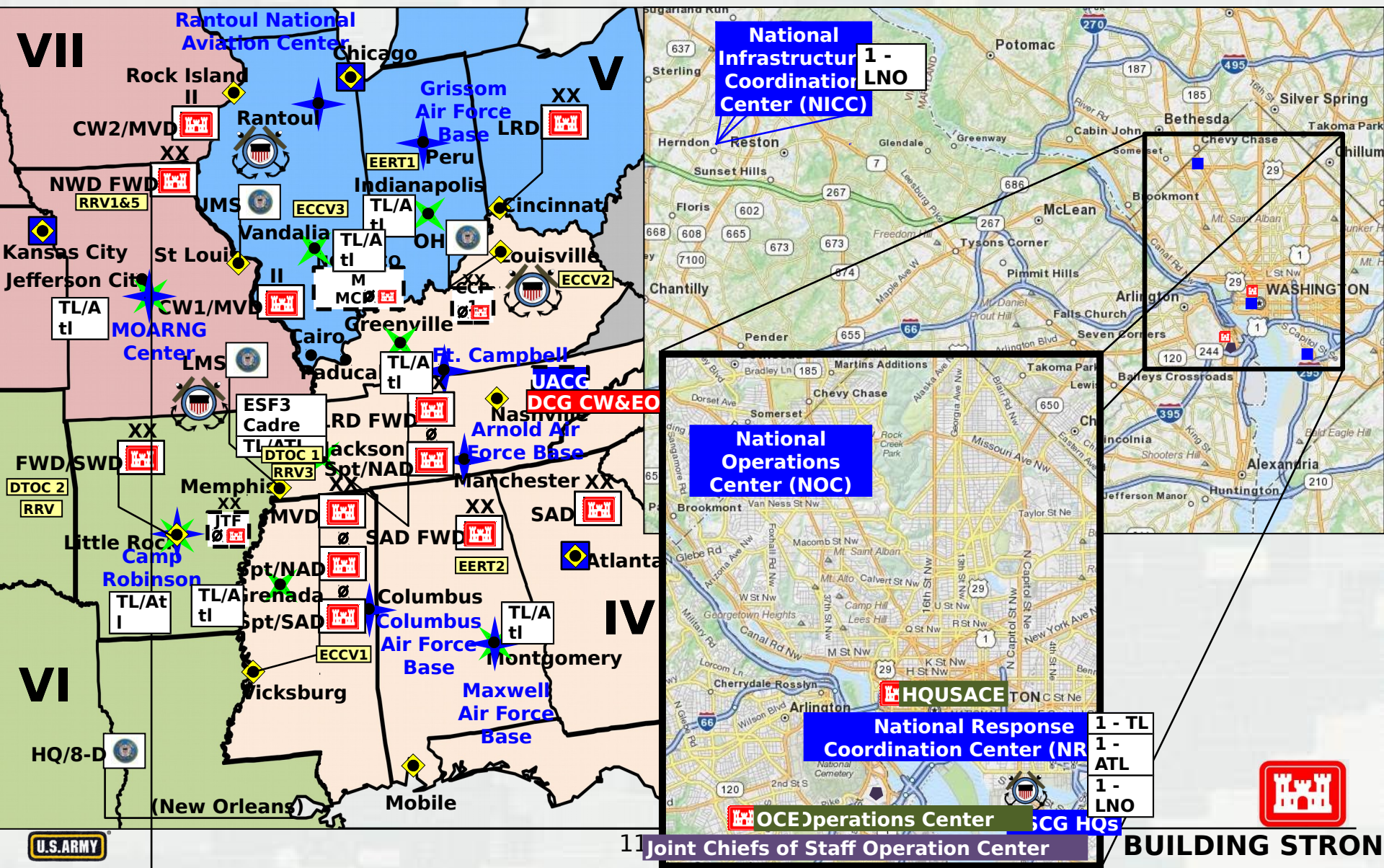
4 - Assumes USACE retains Commodities PRT mission



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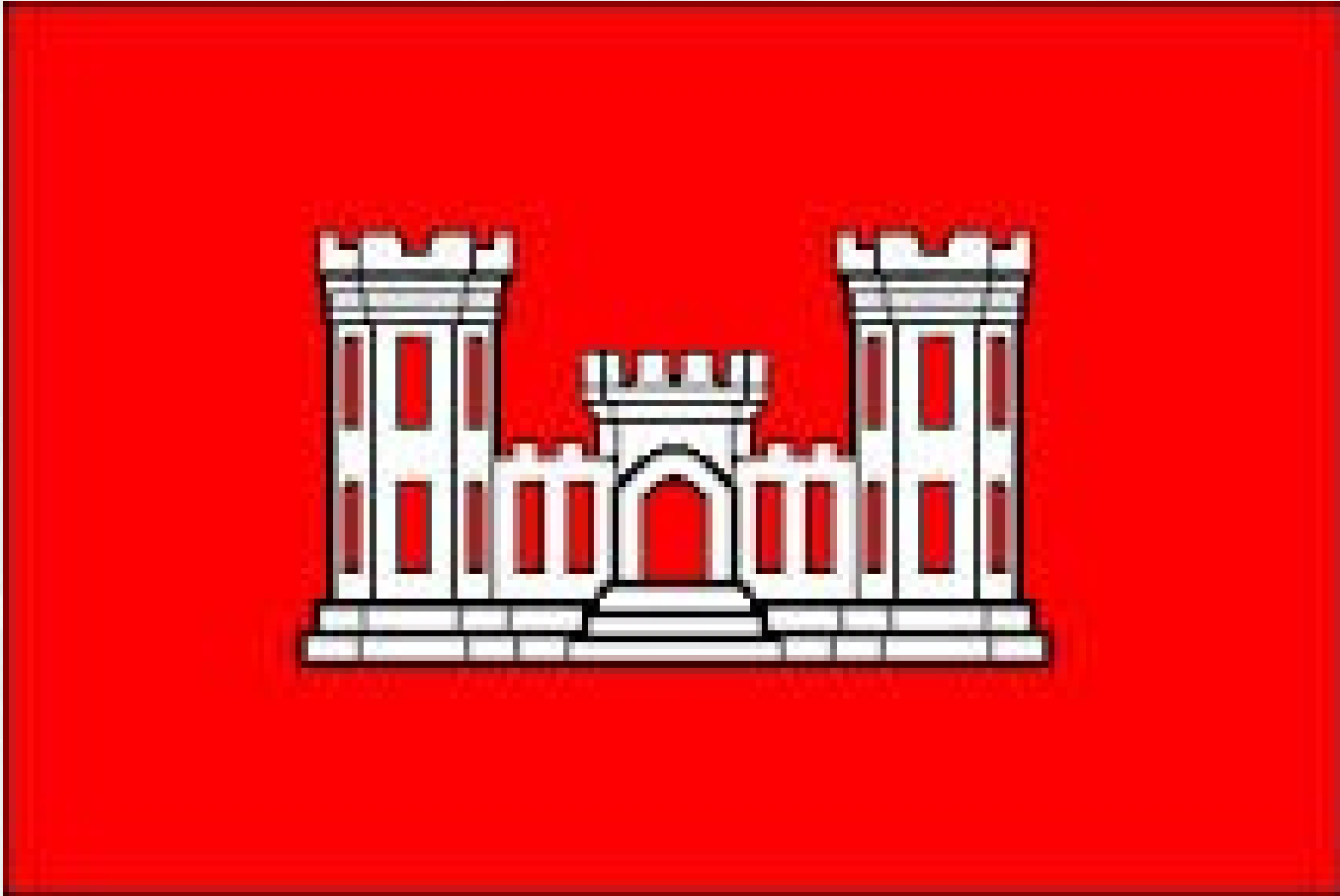


Command and Control



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Discussion



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202-761-0394

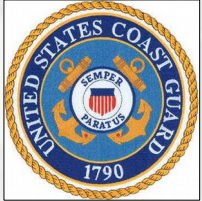


USACE NMSZ Response Lines of Effort



LOE #1 COOP-Devolution-
Reconstitution

NWD and
subordinates able to
execute MEFS



LOE #2 Civil Works and Navigation

Civil Works Projects
Operational/
Navigation Restored

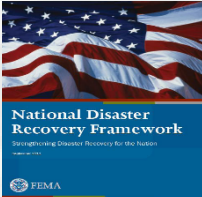


LOE#3 NRF Disaster Response

NWD and subordinates
able to execute MEFS



LOE #4 Support DOD
Installations



Recovery Operations

**Stafford
Act**



LRD
MVD
NWD
SAD
SWD

Team (PRT)

Incident Support Base

Rantoul National Aviation Center

Grissom Air Force Reserve Base

Jefferson City MOARNG Ctr

Fort Campbell

Arnold Air Force Base

Columbus Air Force Base

Maxwell Air Force Base



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Phase 2b - Deployment Phase 2c - Employment & Sustain

Pre-Assigned Missions

Key Tasks:

- 2b: first 24 to 72 hours
- 2c: 72 hours to 30 days
- Complete deployment
- Co-locate DCG CW&EO with UACG
- Engineer reconnaissance and assessments of civil works and critical infrastructure
- Initiate temporary repairs to flood protection infrastructure ISO flood fighting measures



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protection infrastructure ISO flood fighting measures

HQUSACE OPLAN Changes

- The NAD and SPD O-6 led USACE Forward Task Forces are OPCON to LRD. They will respectively support LRD operations at the Tennessee and Kentucky JFOs.
- SPD will deploy a General Officer to lead MVD's TF Navigation.
- MVD retains lead for ESF 3 operations in Illinois and Mississippi, with SAD will operating the RFOs in those two states.
- The DCG, CW&EO does not necessarily forward deploy since the NRCC will adjudicate issues and resources.
- The UROC, ICW MVD and LRD, has lead to develop and implement a USACE Critical Infrastructure reconnaissance plan.
- CECI, in coordination with ACE-IT, the UROC and SAM / DTOS, will develop an overall USACE communications plan as part of the Signal Annex.
- The Strategic Infrastructure Recovery Cell utilizes a GS-15 or PM from the supported divisions ICW the DCO to adjudicate USACE resources and manage USACE Infrastructure priorities.
- A revised CONPLAN (Annex A) accounts for recent PRT inactivations and changes to MSC response plans.
- The ULA is tasked to provide two logisticians to support the FEMA Movement Control Cell at the NRCC.
- Based on predicted damage levels (MAE Center Report), USACE will not need to establish an RFO in Alabama.



The Retired Annuitant Office (RAO) serves as the USACE lead to coordinate with the Department of Interior (DOI) to fill ESF 3 personnel support requirements.



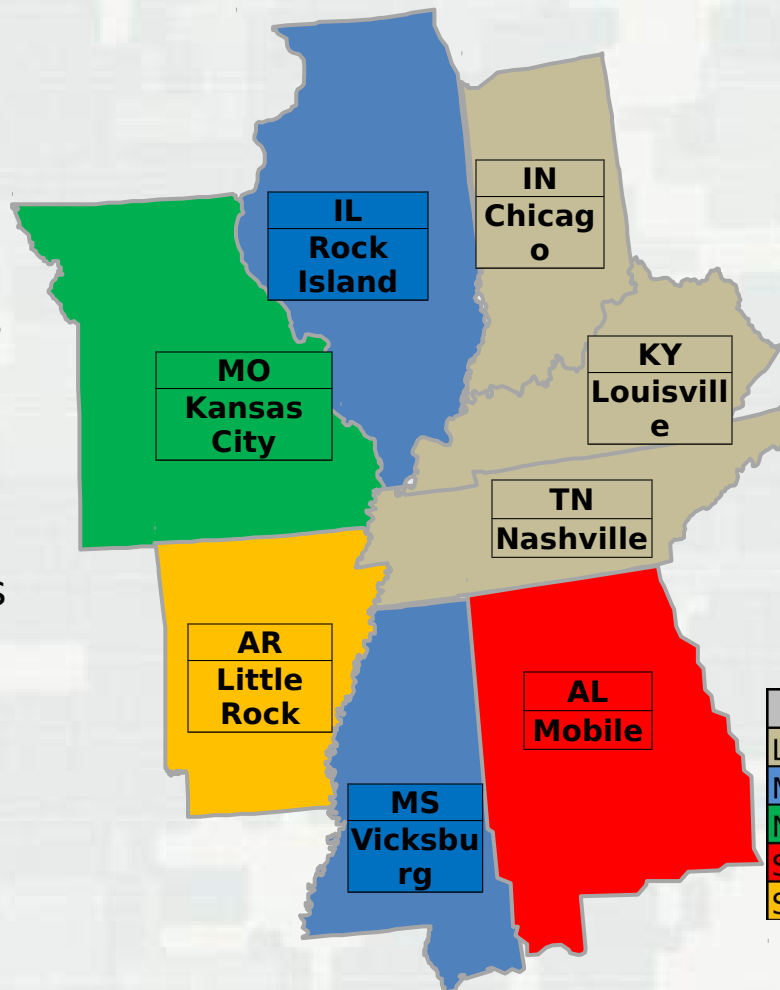
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Concept of Operations

USACE Support to FEMA

- MSC's and District's responsibilities aligned by state.
- MVD retains responsibility for IL & MS ESF 3 missions but SAD operates the RFOs
- Support FEMA/DHS through ESF # 3 mission assignments
- Worst Case Scenario assumes Memphis and St. Louis will be impacted districts (their PRT's will not be available)



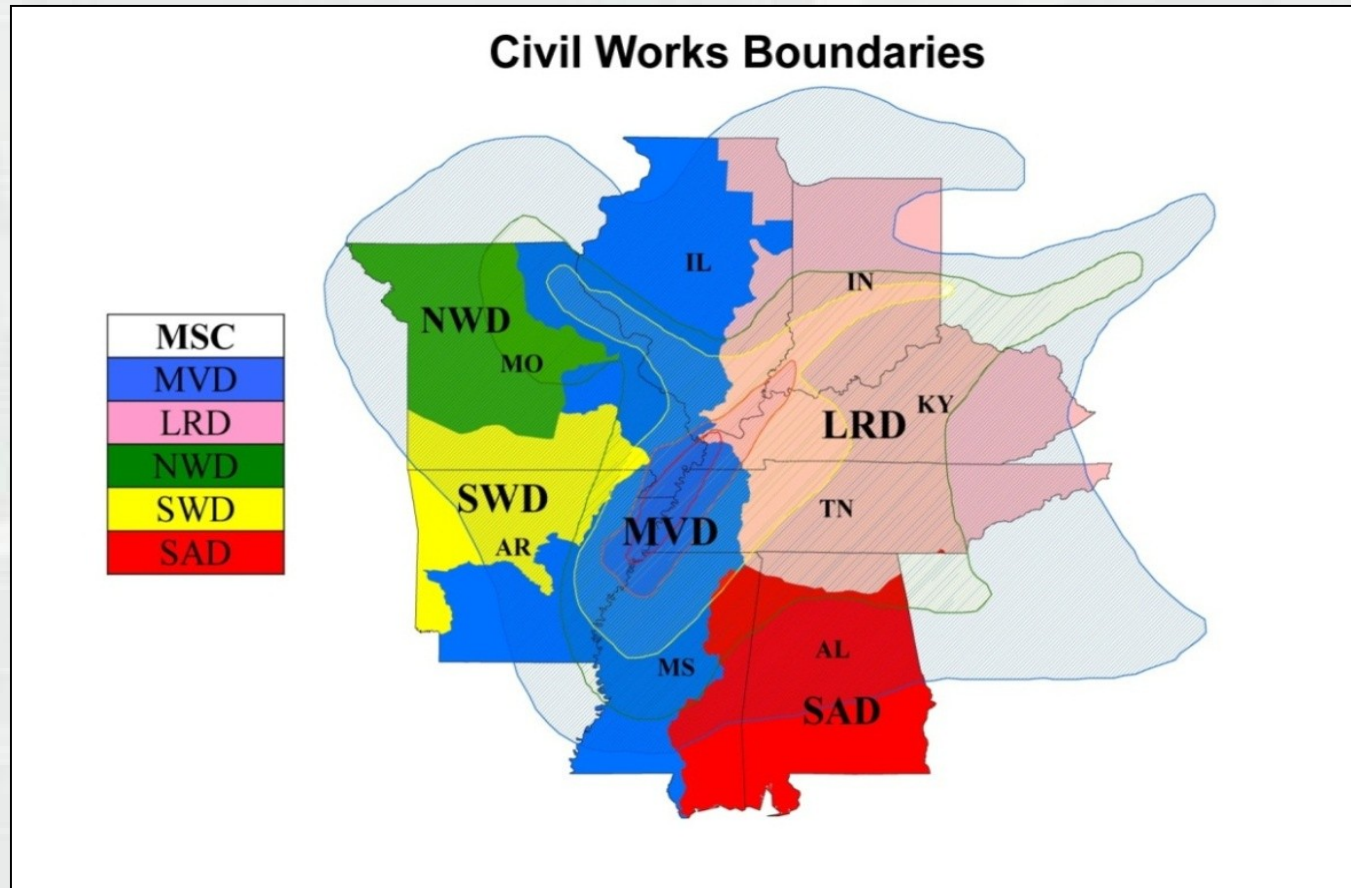
State District		
MSC	State	FEMA Region
LRD	IN, KY, TN	IV, V
MVD	MS, IL	V, VI
NWD	MO	VII
SAD	AL	IV
SWD	AR	VII



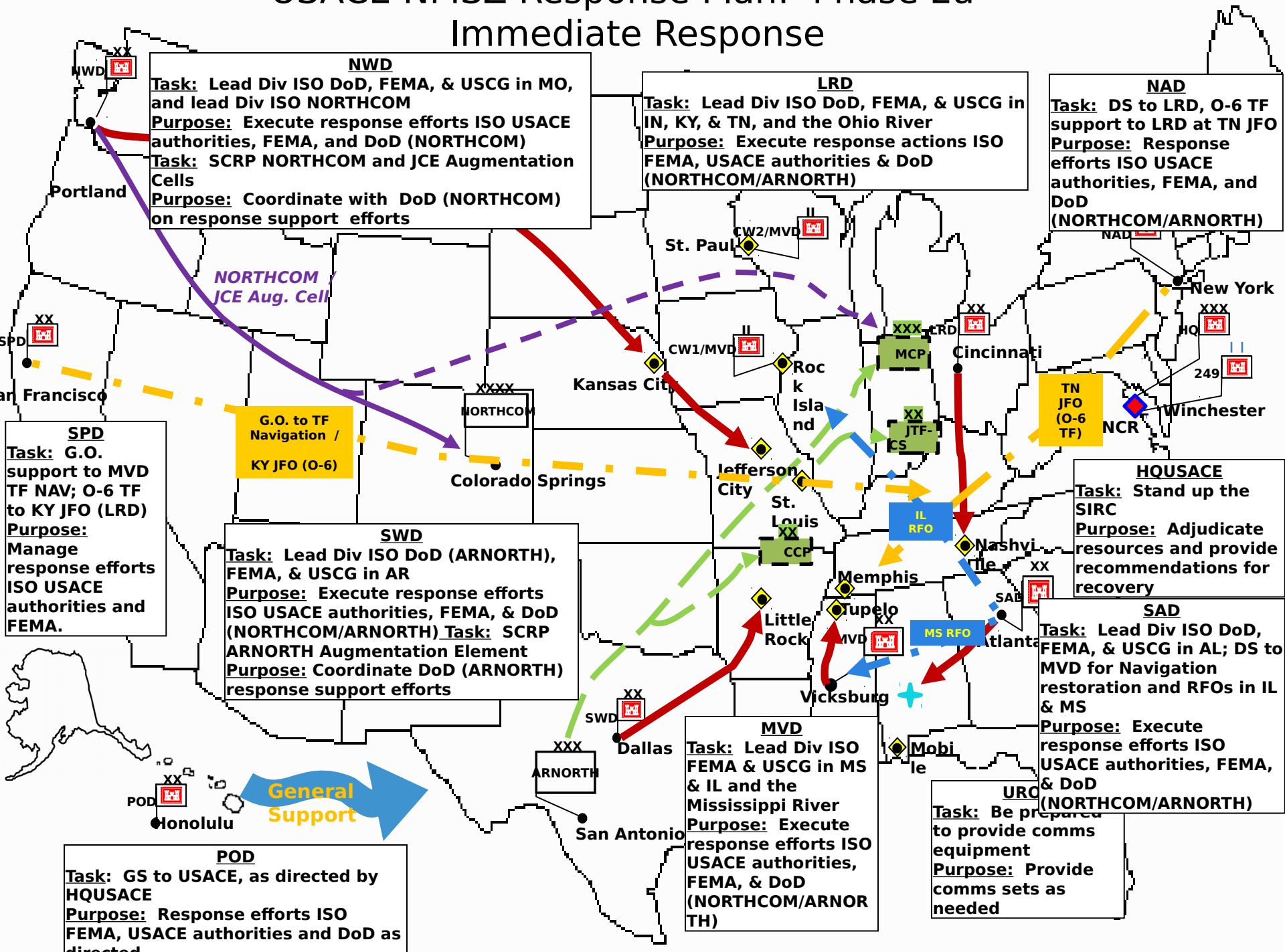
Concept of Operations

Civil Works Response

- Support to USACE Civil Works Projects Will Be Within Current Civil-Works Boundaries



Immediate Response



ECCV Specifics

DTOS Unit	Stationing unit	Cmd/ Spt Relationship	State / tentative location	Purpose	Remarks
ECCV01	SAM	GS to LRD	TN	ESF3 Support to State	
ECCV02	SAM	GS to LRD	KY	ESF3 Support to State	
ECCV03	SAM	OPCON to HQUSACE	UNK	USACE FWD C2 Node	Assumes USACE FWD west of MS River
ECCV04	SAM	GS to MVD	MS	ESF3 Support to State	
ECCV05	SAM	GS to LRD	IN	ESF3 Support to State	
ECCV06	Belvior	GS to MVD	IL	ESF3 Support to State	
ECCV07	NAB	OPCON to LRD	TN	LRD DIV FWD C2	
ECCV08	LRN	OPCON to LRD	KY	LRD DIV FWD C2	
ECCV09	SWF	GS to SWD	AR	ESF3 Support to State	
ECCV10	MVS	OPCON to MVD	East MS River	MVD Civil TF C2 (East)	
ECCV11	NWP	OPCON to MVD	West MS River	MVD Civil TF C2 (West)	
ECCV12	SPK	GS to NWD	MO	ESF3 Support to State	
ECCV13	SPK	OPCON to SWD	AR	SWD DIV FWD C2	
ECCV14	SPK	OPCON to NWD	MO	NWD DIV FWD C2	
ECCV15	SPL	OPCON to MVD	West MS River	MVD DIV FWD C2	Assumes MVD FWD west of MS River
MCV01	LRN	OPCON to LRD	TN	Reconstitute LRN	
MCV02	SAM	GS to SAD	AL	ESF3 Support to State	
MCV03	NAB	OPCON to MVD	TN	Reconstitute MVM	
CTOC01	POD				
CTOC02	SAM	OPCON to MVD	n/a	Reconstitute MVS	
ESU01	SAM	GS to LRD	TN		
ESU02	SAM	GS to NWD	MO		
ESU03	SAM	GS to SWD	AR		Assumes can cross MS River
1 - Light Brown box Color represents assets East of Mississippi River					
2 - No highlight Color represents assets West of Mississippi River					
3 - Red font represents available resources not currently utilized					
4 - Green font represents changes to allocations					



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